

Mahanalua Nui Water System Report to the Consumer for Calendar Year 2007

Introduction

This report is being made available to you pursuant to the requirements of the 1996 Amendments to the Federal Safe Drinking Water Act, which requires this water system provide information to its customers related to personal health-based decisions regarding their drinking water consumption. This water system did not have any violations of State or Federal safe drinking water regulations in 2007.

General Information Relating to Drinking Water Contaminants and Health Risks

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.
- Lead "If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Mahanalui Nui Water System is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>."

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Important Information Regarding Drinking Water Contaminants and Immuno-Compromised Persons

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Water Source Information

In 2007, the Mahanalua Nui Water System was supplied by the Mahanalua Nui Wells 1 and 2. These wells are groundwater sources, drawing from the underground Launiupoko Aquifer. Water from the wells is chlorinated to ensure that your drinking water meets the Safe Drinking Water Regulations of the EPA and the State of Hawaii Department of Health. The wells are located on the upper slopes of Launiupoko Ridge, mauka of major development and human activities. As such, the potential for human land use related activity contaminating your drinking water is minimized. The results of the 2007 testing of your water were all within limits prescribed by EPA and the State. The Department of Health completed a source water assessment in 2004 and is available for review at the Property managers office. Contact Launiupoko Water Co. at 877-2434.

Definitions of Terms Used in This Report

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Residual disinfection Level Goal or MRDLG: the level of drinking water disinfection below, which there is no expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Maximum Residual Disinfection Level or MRDL= the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Contaminants Detected in Mahanalua Nui Water System

This system is required to test for over 80 different drinking water contaminants. The table below lists only those drinking water contaminants that were detected in the water system. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in the tables are from testing done January 1-December 31, 2007. The State allows us to monitor for some contaminants less than once per year because the concentration of these contaminants do not change frequently.

Table of EPA Regulated Contaminants Detected in the Mahanalua Nui Water System

MCL=Maximum Contaminant Level pCi/l=picocuries per liter (a measure of radioactivity) NQ=Not Quantifiable
MCLG=Maximum Contaminant Level Goal ppm=parts per million, or milligrams per liter (mg/l) ND=Not Detected
AL=Action Level ppb=parts per billion, or micrograms per liter (µg/l) mrem/year=millirems per year (a measure of radiation absorbed by the body)
MRDL = Maximum residual disinfection levels
MRLDG = Maximum residual disinfection levels goal.

Regulated Contaminant	Unit	MCL	MCLG	Highest Detected Contaminant Level	Range of Detected Contaminant Levels	Likely Source(s) of Contamination	Remarks
Chlorine	ppm	4.0	4.0	0.88	0.39-.88	Added to water during the treatment process	
Nitrate (as Nitrogen)	ppm	10	10	2.2	.59-2.2	Runoff from fertilizer use. Erosion of natural deposits.	
Total Nitrate and Nitrite (as Nitrogen)	ppm	10	10	2.2	.59-2.2	Runoff from fertilizer use. Erosion of natural deposits.	
Total Trihalomethanes (TTHM)	ppb	80	N/A	21.0	N/A	By-product of drinking water disinfection.	
Haloacetic Acids (HAA)	ppb	60	N/A	4.0	N/A	By-product of drinking water disinfection	

- * The MCL for beta particles is 4 mrem/year. EPA considers 50 pCi/l to be the level of concern for beta particles.
- ** EPA method 525.2, sect. 13.2.4: “Phthalate esters and other background components appear in variable quantities in laboratory and field reagent blanks, and generally cannot be accurately measured at levels below about 2 µg/L.”

Table of EPA Unregulated Contaminants Detected in the Mahanalua Nui Water System

Unregulated Contaminant	Unit	Range of Detected Contaminant Values	Average Detected Contaminant Value
Sulfate	ppm	19-20	19.4 ppm
Sodium	ppm	23-83	53

The contaminants listed in this table are considered to be unregulated (do not have MCLs), but are required to be sampled for periodically. Unregulated contaminant monitoring helps the State Department of Health and the EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

Additional information

For additional information concerning this report contact: Mr. Eric Okazaki, Pural Water Specialty Co., 1955 Vineyard Street, Wailuku, HI 96793, telephone (808) 242-7299.

Opportunities for Public Participation

We welcome your input and participation in the decision-making process that affects the quality of the drinking water supplied to you by the Mahanalua Nui Water System. Should you desire to provide input or have pertinent comments regarding our system, please contact our system operator, Pural Water Specialty Co., 1955 Vineyard Street, Wailuku, Hawaii 96793, telephone (808) 242-7299; or the owner’s representative Mr. Glenn Tremble, Launiupoko Water Company, Kahului Building, 33 Lono Avenue, Suite 450, Kahului, Hawaii 96732, telephone (808) 877-2434.